

# KN-92 (hydrochloride)

Catalog No: tcsc1264



## Available Sizes

**Size:** 2mg

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

1431698-47-3

**Formula:**

$C_{24}H_{26}Cl_2N_2O_3S$

**Pathway:**

Neuronal Signaling

**Target:**

CaMK

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

493.45

## Product Description

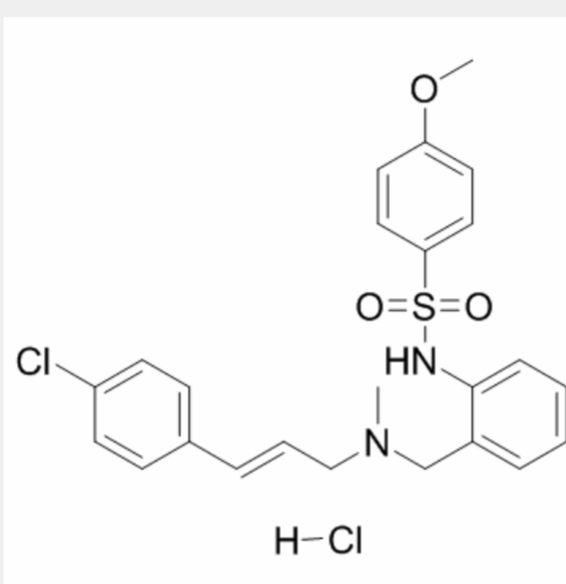
KN-92 is an inactive derivative of KN-93. KN-93 is a selective inhibitor of Ca<sup>2+</sup>/calmodulin-dependent kinase II (CaMKII),

competitively blocking CaM binding to the kinase ( $K_i = 370$  nM).

IC<sub>50</sub> value:

Target:

KN-92 is intended to be used as a control compound in studies designed to elucidate the antagonist activities of KN-93. KN-93 inhibits histamine-induced aminopyrine uptake in parietal cells (IC<sub>50</sub> = 300 nM). KN-93 has been used to implicate roles for CaMKII in Ca<sup>2+</sup>-induced Ca<sup>2+</sup> release in cardiac myocytes, constitutive phosphorylation of 5-lipoxygenase in 3T3 cells, and Ca<sup>2+</sup>-dependent activation of HIF-1 $\alpha$  in colon cancer cell.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!